



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re the Application of: **Minoru MIYATAKE et al.**

Group Art Unit: 1774

Serial No.: 10/507,484

Filed: September 13, 2004

Confirmation No.: 8538

For: **ANTIREFLECTION FILM, ITS PRODUCTION METHOD, OPTICAL
DEVICE, AND IMAGE DISPLAY**

Attorney Docket Number: 042641

Customer Number: 38834

REQUEST FOR CORRECTED FILING RECEIPT

Mail Stop: Missing Parts

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

Date: April 28, 2005

Sir:

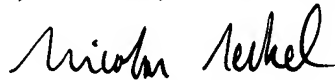
Please supply the undersigned attorney with a corrected filing receipt for the above-identified application. The undersigned also respectfully requests that the Patent and Trademark Office records be amended to reflect the correction.

In reviewing the Official Filing Receipt, we noted the Assignee's Information was missing. The Assignee's Information should read --**NITTO DENKO CORPORATION, Osaka, JAPAN**--. Also, we noted an error in the Title. The Title should read --**ANTIREFLECTION FILM, ITS PRODUCTION METHOD, OPTICAL DEVICE, AND IMAGE DISPLAY**--. A copy of **Assignment** and **PCT Publication** are enclosed which indicate the correct information. We are also enclosing a copy of the filing receipt with the corrections highlighted.

Request for Corrected Filing Receipt
10/507,484
042641

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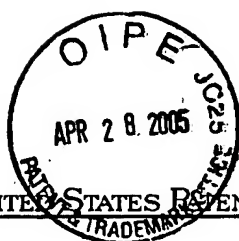
Respectfully submitted,
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP



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NES/if

Enclosures: Official Filing Receipt; Assignment; PCT Publication



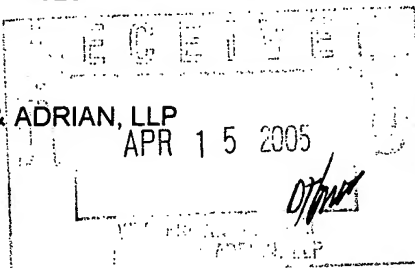
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/507,484	09/13/2004	1774	920	042641	1	19	2

38834

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CONFIRMATION NO. 8538

FILING RECEIPT



OC000000015688690

Date Mailed: 04/11/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Minoru Miyatake, Osaka, JAPAN;
Masahiro Yoshioka, Osaka, JAPAN;
Tomoaki Masuda, Osaka, JAPAN;
Atsushi Kitagawa, Osaka, JAPAN;
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-- NITTO DENKO CORPORATION, Osaka, JAPAN--;

Please Insert { Assignment for Published Patent Application

Power of Attorney: The patent practitioners associated with Customer Number 38834.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/02890 03/12/2003

Foreign Applications

JAPAN 2002-71448 03/15/2002
JAPAN 2002-212750 07/22/2002
JAPAN 2002-212751 07/22/2002
JAPAN 2003-55268 03/03/2003

Projected Publication Date: 07/14/2005

Non-Publication Request: No

Early Publication Request: No

Title

Antireflection film, its production method, optical device and image display

Preliminary Class

Please Insert

428

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's
Name(s) Address(es))

NITTO DENKO CORPORATION

1-1-2, Shimohozumi, Ibaraki-shi, Osaka, 567-8680 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

**ANTIREFLECTION FILM, METHOD FOR MANUFACTURING THE SAME,
OPTICAL ELEMENT, AND IMAGE VIEWING DISPLAY**

(*If the assignment is
being filed after the
filing of the
application, this
section must be
completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

* filed on _____ Serial No. _____

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Minoru Miyatake</u> (Signature)	<u>Minoru MIYATAKE</u> (Type Name)	<u>July 26, 2004</u> (Date)
<u>Masahiro Yoshioka</u> (Signature)	<u>Masahiro YOSHIOKA</u> (Type Name)	<u>July 26, 2004</u> (Date)
<u>Tomoaki Masuda</u> (Signature)	<u>Tomoaki MASUDA</u> (Type Name)	<u>July 26, 2004</u> (Date)
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(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2003 年 9 月 25 日 (25.09.2003)

PCT

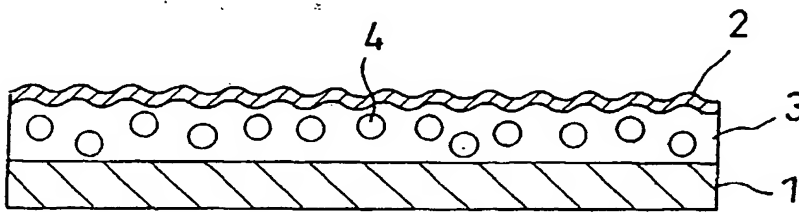
(10) 国際公開番号
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- (51) 国際特許分類: G02B 1/10 (71) 出願人 (米国を除く全ての指定国について): 日東電工株式会社 (NITTO DENKO CORPORATION) [JP/JP]; 〒567-8680 大阪府 茨木市 下穂積 1 丁目 1 番 2 号 Osaka (JP).
- (21) 国際出願番号: PCT/JP03/02890
- (22) 国際出願日: 2003 年 3 月 12 日 (12.03.2003) (72) 発明者; および
- (25) 国際出願の言語: 日本語 (75) 発明者/出願人 (米国についてのみ): 宮武 稔 (MIY-ATAKE, Minoru) [JP/JP]; 〒567-8680 大阪府 茨木市 下穂積 1 丁目 1 番 2 号 日東電工株式会社内 Osaka (JP). 吉岡 昌宏 (YOSHIOKA, Masahiro) [JP/JP]; 〒567-8680 大阪府 茨木市 下穂積 1 丁目 1 番 2 号 日東電工株式会社内 Osaka (JP). 増田 友昭 (MASUDA, Tomoaki) [JP/JP]; 〒567-8680 大阪府 茨木市 下穂積 1 丁目 1 番 2 号 日東電工株式会社内 Osaka (JP). 北川 篤 (KITA-GAWA, Atsushi) [JP/JP]; 〒567-8680 大阪府 茨木市 下穂積 1 丁目 1 番 2 号 日東電工株式会社内 Osaka (JP).
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:
- | | | |
|---------------|------------------------------|----|
| 特願2002-71448 | 2002 年 3 月 15 日 (15.03.2002) | JP |
| 特願2002-212750 | 2002 年 7 月 22 日 (22.07.2002) | JP |
| 特願2002-212751 | 2002 年 7 月 22 日 (22.07.2002) | JP |
| 特願2003-55268 | 2003 年 3 月 3 日 (03.03.2003) | JP |

/続葉有/

(54) Title: ANTIREFLECTION FILM, ITS PRODUCTION METHOD, OPTICAL DEVICE, AND IMAGE DISPLAY

(54) 発明の名称: 反射防止フィルム、その製造方法、光学素子および画像表示装置



(57) Abstract: An antireflection layer is formed directly at least on one side of a transparent base film of an antireflection film, or indirectly with another layer interposed between the antireflection layer and the transparent base film. The antireflection layer is made of at least two kinds of low-refraction material having a refraction index n_d satisfying the relation $n_d^{20} \leq 1.49$.

The antireflection layer is excellent in antireflection characteristics and mar resistance. When the antireflection layer is formed on a hard coat layer having an uneven surface roughened by particles, not directly on the base film, the antireflection film is excellent in antiglareness.

(57) 要約:

本発明の反射防止フィルムは、透明基材フィルムの少なくとも片面に、直接または別の層を介して、反射防止層が形成されている。前記反射防止層は、屈折率: $n_d^{20} \leq 1.49$ を満足する、少なくとも二種類の低屈折率材料によって形成されている。本発明の反射防止フィルムは、低屈折率材料により形成された反射防止層を有し、反射防止特性と耐擦傷性に優れる。また、反射防止層を、微粒子により凹凸形状表面が形成されたハードコート層等を介して設けることにより、防眩性に優れた反射防止フィルムが得られる。

WO 03/079059 A1